		'	PC 1/EP20	04/012400			
A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G01N33/574 C12Q1/68							
According to International Patent Classification (IPC) or to both national classification and IPC							
	SEARCHED cumentation searched (classification system followed by classification)	on overhold)					
IPC 7	GOIN C12Q	on synuos)					
Documentat	tion searched other than minimum documentation to the extent that s	uch documents are included	in the fields s	earched			
l .	ata base consulted during the international search (name of data ba	se and, where practical, sea	rch terms used	1)			
EPO-In	ternal, BIOSIS, WPI Data, EMBASE						
C. DOCUME	NTS CONSIDERED TO BE RELEVANT						
Category °	Citation of document, with Indication, where appropriate, of the rel	evant passages		Relevant to claim No.			
Y	WO 03/039443 A (DEUTSCHES KREBSFORSCH; HAFERLACH TORSTEN (DE); EILS ROLAND (DE); K) 15 May 2003 (2003-05-15) the whole document in particular Examples 4, 6 and 7 page 69, line 22 - page 71, line 8			1-27			
	-	-/					
X Furth	er documents are listed in the continuation of box C.	X Patent family mem	bers are listed	In annex.			
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but		Tater document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention. "X" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone. "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combined with one or more other such documents, such combination being obvious to a person skilled in the art. "8" document member of the same patent family Date of mailing of the international search report					
	March 2005	_	9. 06. 2				
Name and m	ailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk	Authorized officer					
	Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Thumb, W					

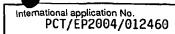
(Continu	STION) DOCUMENTS CONCIDEDED TO BE DELEVANT	PCT/EP2004/012460
tegory *	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	SCHOCH CLAUDIA ET AL: "Acute myeloid leukemias with reciprocal rearrangements can be distinguished by specific gene expression profiles" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE. WASHINGTON, US, vol. 99, no. 15, 23 July 2002 (2002-07-23), pages 10008-10013, XP002215484 ISSN: 0027-8424 the whole document in particular tables 1 and 2	1-27
	DATABASE BIOSIS [Online] BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; 16 November 2002 (2002-11-16), SCHOCH CLAUDIA ET AL: "AML with Complex Aberrant Karyotype Can Be Distinguished from All Other AML Subtypes by Gene Expression Profiles and Are Characterized by Higher Expression of Genes Involved in DNA Repair." XP002269820 Database accession no. PREV200300335804 abstract & BLOOD, vol. 100, no. 11, 16 November 2002 (2002-11-16), page Abstract No. 1204, 44th Annual Meeting of the American Society of Hematology; Philadelphia, PA, USA; December 06-10, 2002 ISSN: 0006-4971	1-27
	KOHLMANN A ET AL: "MOLECULAR CHARACTERIZATION OF ACUTE LEUKEMIAS BY USE OF MICROARRAY TECHNOLOGY" GENES, CHROMOSOMES & CANCER, XX, XX, vol. 37, no. 4, August 2003 (2003-08), pages 396-405, XP008025253 the whole document in particular table 2 -/	1-27

		PCT/EP2004/012460			
C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT					
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.			
Υ	HAFERLACH T ET AL: "The Diagnosis of 14 Specific Subtypes of Leukemia Is Possible Based on Gene Expression Profiles: A Study on 263 Patients with AML, ALL, CML, or CLL" BLOOD, W.B.SAUNDERS COMPAGNY, ORLANDO, FL, US, vol. 100, no. 11, 16 November 2002 (2002-11-16), page 139A, XP002263227 ISSN: 0006-4971 the whole document	1-27			
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Y	EP 1 043 676 A (WHITEHEAD BIOMEDICAL INST) 11 October 2000 (2000-10-11) the whole document	1-27			
Y	DATABASE BIOSIS [Online] BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; 16 November 2002 (2002-11-16), KOHLMANN ALEXANDER ET AL: "A Simplified and Partially Automated Target Preparation Method for Gene Expression Profiling." XP002269495 Database accession no. PREV200300367771 abstract & BLOOD, vol. 100, no. 11, 16 November 2002 (2002-11-16), page Abstract No. 4287, 44th Annual Meeting of the American Society of Hematology; Philadelphia, PA, USA; December 06-10, 2002 ISSN: 0006-4971	1-27			
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	TO BE DESCRIPTION OF THE PARTY	PCT/EP2004/012460
Category °	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	DUGAS M ET AL: "A comprehensive leukemia database: integration of cytogenetics, molecular genetics and microarray data with clinical information, cytomorphology and immunophenotyping" LEUKEMIA, MACMILLAN PRESS LTD, US, vol. 15, no. 12, December 2001 (2001-12), pages 1805-1810, XP002263731 ISSN: 0887-6924 the whole document	1-27 vz.
Y	DUGAS MARTIN ET AL: "Impact of integrating clinical and genetic information." IN SILICO BIOLOGY, vol. 2, no. 3, 2002, pages 383-391, XP001179418 ISSN: 1386-6338 (ISSN print) the whole document	1-27
Y	DATABASE BIOSIS [Online] BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; 16 November 2002 (2002-11-16), KOHLMANN ALEXANDER ET AL: "A Gene Expression Study of 59 Acute Myeloid Leukemia (AML) Patients with Recurrent Cytogenetic Abnormalities." XP002269490 Database accession no. PREV200300335805 abstract & BLOOD, vol. 100, no. 11, 16 November 2002 (2002-11-16), page Abstract No. 1205, 44th Annual Meeting of the American Society of Hematology; Philadelphia, PA, USA; December 06-10, 2002 ISSN: 0006-4971	1-27
Y	DATABASE BIOSIS [Online] BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; 16 November 2002 (2002-11-16), RITTER MARKUS ET AL: "Differentially Regulated Signaling Pathways in AML with Monosomy 7 and 7q" XP002273028 Database accession no. PREV200300367793 abstract -/	1-27

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT					
Category *		Relevant to claim No.			
	& BLOOD, vol. 100, no. 11, 16 November 2002 (2002-11-16), page Abstract No. 4309, 44th Annual Meeting of the American Society of Hematology; Philadelphia, PA, USA; December 06-10, 2002 ISSN: 0006-4971				
Y	GOLUB T R ET AL: "Molecular classification of cancer: Class discovery and class prediction by gene expression monitoring" SCIENCE, AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, US, vol. 286, no. 5439, 15 October 1999 (1999-10-15), pages 531-537, XP002207658 ISSN: 0036-8075 cited in the application	1-27			
A .	The whole document YANG JIANHUA ET AL: "Calcineurin/nuclear factors of activated T cells (NFAT)-activating and immunoreceptor tyrosine-based activation motif (ITAM)-containing protein (CNAIP), a novel ITAM-containing protein that activates the calcineurin/NFAT-signaling pathway." JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 278, no. 19, 9 May 2003 (2003-05-09), pages 16797-16801, XP002273544 ISSN: 0021-9258 abstract	1-27			
A	ALIZADEH A ET AL: "THE LYMPHOCHIP: A SPECIALIZED CDNA MICROARRAY FOR THE GENOMIC-SCALE ANALYSIS OF GENE EXPRESSION IN NORMAL AND MALIGNANT LYMPHOCYTES" COLD SPRING HARBOR SYMPOSIA ON QUANTITATIVE BIOLOGY, BIOLOGICAL LABORATORY, COLD SPRING HARBOR, NY, US, vol. 64, no. 1, 1999, pages 71-78, XP001099007 ISSN: 0091-7451 the whole document	1-27			

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	(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT (atendors * Citation of document, with indication, where appropriate of the relevant passages Relevant to claim No.					
Category °	Citation of document, with indication, where appropriate, of the relevant passages		Helevant to daim No.			
A .	DATABASE BIOSIS [Online] BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; 16 November 2001 (2001-11-16), SCHOCH CLAUDIA ET AL: "AML with recurring chromosome abnormalities as defined in the new WHO-classification: Incidence of subgroups, additional genetic abnormalities, FAB subtype and age distribution in an unselected series of 1897 cytogenetically and moleculargenetically analysed AML" XP002269494 Database accession no. PREV200200241183 abstract 8 BLOOD, vol. 98, no. 11 Part 1, 16 November 2001 (2001-11-16), pages 457a-458a, 43rd Annual Meeting of the American Society of Hematology, Part 1;Orlando, Florida, USA; December 07-11, 2001 ISSN: 0006-4971		1-27			



Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Article 52 (2)(d) EPC - Presentation of information
The claims were only searched with regards to the underlying method of generating a reference data base for distinguishing AML-subtypes with
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims.
As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1-27 (partially)
Remark on Protest The additional search fees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.1

Article 52 (2)(d) EPC - Presentation of information

The claims were only searched with regards to the underlying method of generating a reference data base for distinguishing AML-subtypes with recurring genetic aberrations.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-27 (partially)

A method for distinguishing AML subtypes with trisomy 11 from all other AML subtypes, the method comprising determining the expression level of the marker NFAM1. Use of said marker for the manufacture of a diagnostic. A diagnostic kit containing said marker and an apparatus comprising a reference data bank, wherein the reference data bank is obtainable by determining the expression level of NFAM1.

2. claims: 1-27 (all partially)

Inventions 2-4550
Methods for distinguishing AML subtypes with recurring genetic aberrations t(8;21), t(15;17), t(11q23)/MLL, inv(3)/t(3;3), inv(16), AML komplext, trisomy 8, trisomy 11, trisomy 13, monosomy 7, del(5q) and/or del(9q) and methods for distinguishing specific subtypes against all other subtypes and against each other, the method comprising determining individually the expression level of the markers listed in tables 1.1, positions 2-50, tables 1.2-1.13 and in table 2. Use of said markers for the manufacture of diagnostics. Diagnostic kits containing said markers and apparatus comprising a reference data bank, wherein the reference data bank is obtainable by determining the expression levels of said markers.

Information on patent family members

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
WO 03039443	A	15-05-2003	EP WO EP	1308522 03039443 1470247	A2	07-05-2003 15-05-2003 27-10-2004
EP 1043676	A·	11-10-2000	CA EP JP US US US	2304876 1043676 2001017171 2003017481 6647341 2003073083	A2 A A1 B1	09-10-2000 11-10-2000 23-01-2001 23-01-2003 11-11-2003 17-04-2003